Bai 1 : Dem so chan , le . Tong chan , tong le

Bai 2 : Trung binh cong nguyen to

Bai 3 : So nho nhat ma xuat hien nhieu nhat

Bai 4 : So lon hon x, nho hon x

Bai 5 : In phan tu la so chan o chi so chan

Bai 6 : Cap so bang so k

Bai 7 : Cap so chenh lech nho nhat

Bai 8 : Liet ke gia tri khac nhau trong mang theo thu tu xuat hien / thu tu tang dan ( moi gia tri chi lke 1 lan )

Bai 9 : Gia tri xuat hien cua cac phan tu trong mang kem theo tan suat

Bai 10 : Voi tri lon nhat , vi tri nho nhat

Bai 11 : So lon nhat va so lon thu hai

Bai 12 : Mang doi xung

Bai 13 : Xoa phan tu k khoi mang

Bai 14 : Tan xuat xuat hien cua so chia het cho 3

Bai 15 : Nhap vao so nguyen duong n va n so nguyen. Tim so xuat hien nhieu nhat

Bai 16 : Phan tu xuat hien it nhat 2 lan

------------------- Ma tran ---------------------

Bai 17 : Tinh tong / hieu hai ma tran

Bai 18 : Tong / tich duong cheo chinh

Bai 19 : So nguyen to tren duong cheo chinh va phu

Bai 20 : Ma tran chuyen vi

Bai 21 : Ma tran chuyen vi in theo yeu cau

Bai 22 : Ma tran chuyen vi in theo yeu cau

Bai 23 : Ma tran chuyen vi in theo yeu cau

Bai 24 : So chan xuat hien nhieu nhat

Bai 25 : So chan co hai chu so xuat hien nhieu nhat

Bai 26: Loai phan tu trung lap va in ra thu tu xuat hien / xuat hien chan /le

or in theo tang dan theo thu tu xuat hien / xuat hien chan /le

// BAI LAM :

-------------------Bai 1 : Dem so chan , le . Tong chan , tong le--------------------

5

2

4

7

3

6

OUTPUT:

3

2

12

10

#include <stdio.h>

int main(){

int n,i; // so luong phan tu cua mang

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d", &a[i]);

}

int chan = 0 , le =0; // de dem so luong so chan , so le

int tongchan =0, tongle=0;// de tinh tong chan , tong le

// duyet tu dau => cuoi : kiem tra chan le

for(i=0;i<n;i++){

if(a[i]%2 == 0){

++chan;

tongchan +=a[i]; // tongchan 1 : 372 sau do 372 + ( -864) = -492

}

else{

++le;

tongle +=a[i];

}

}

printf("\nOUTPUT:\n%d\n%d\n%d\n%d", chan, le,tongchan,tongle);

return 0;

}

---------------Bai 2 : Trung binh cong nguyen to----------------------

Input

5

-911 234 151 347 231

Output

249.000

#include <stdio.h>

#include <math.h>

int nt(int n){

int i;

for(i =2;i<= sqrt(n);i++){

if(n%i==0)

return 0;

}

return n>1; // do am thi k tinh la snt

}

int main(){

int n,i; // so luong phan tu cua mang

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d", &a[i]);

}

int cnt=0, sum=0; // bien cnt khoi tao = 0 : dem so luong so nt , sum = 0 : tinh tong snt

for ( i=0;i<n;i++){

if(nt(a[i])){

++cnt;

sum+=a[i];

}

}

printf("\nOUTPUT:\n");

printf("%.3lf",(double)sum/cnt);

return 0;

}

--------------------- Bai 3 : So lan xuat hien cua so ma xuat hien nhieu nhat -------------

5

1 2 1 3 5

OUTPUT:

2

#include <stdio.h>

int main(){

int n,i;

int a[n];

scanf("%d",&n);

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

int min = 1e9;

for (i=0;i<n;i++){

if ( min > a[i])

min = a[i];

// min = fmin(min,a[i]);

}

int cnt=0;

for( i=0;i<n;i++){

if(min==a[i])

++cnt;

}

printf("\nOUTPUT:\n");

printf("%d",cnt);

return 0;

}

-----------Bai 4 : So lon hon x, nho hon x -----------------

5

123 30 127 50 89

50

OUTPUT:

1 3

#include<stdio.h>

int main(){

int n,i;

int a[n];

scanf("%d",&n);

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

int x=0;

scanf("%d",&x);

int nho=0,lon=0;

for(i=0;i<n;i++){

if(a[i]>x){

++lon;

}

else if(a[i]<x)

++nho;

}

printf("\nOUTPUT:\n");

printf("%d %d",nho,lon);

return 0;

}

---------Bai 5 : In phan tu la so chan o chi so chan----------

Input

5

-971 107 458 222 200

Output

458 200

#include<stdio.h>

int main(){

int n,i;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

printf("\nOUTPUT:\n");

int check = 0; // kiem tra xem co so nao thoa man khong

for (i=0;i<n;i++){

if(i%2 == 0 && a[i]%2 ==0){

printf("%d ",a[i]);

check =1; // da tim thay roi

}

}

if (check == 0)

printf("NONE");

return 0;

}

----------Bai 6 : Cap so bang so k------------------

5

1 2 3 1 2

3

OUTPUT:

4

#include <stdio.h>

int main(){

int i,n;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

int k,j;

scanf("%d",&k);

int cnt=0;

// xet thang a[i] cap voi nhung phan tu a[j] => j bat dau i+1 va ket thuc la n-1 ( vi khong xet so cuoi cung vi sau no khong con so nao khac de so sanh)

for(i = 0; i < n - 1; i++){

for(j = i + 1;j < n; j++){

if(a[i]+a[j]==k){

++cnt;

}

}

}

printf("\nOUTPUT:\n");

printf("%d",cnt);

return 0;

}

// bonus : in them ra nhung cap so = k

5

1 5 3 5 4

4

OUTPUT:

1 3

#include <stdio.h>

int main() {

int i, n;

scanf("%d", &n);

int a[n];

for (i = 0; i < n; i++) {

scanf("%d", &a[i]);

}

int k, j;

scanf("%d", &k);

printf("\nOUTPUT:\n");

// xet thang a[i] cap voi nhung phan tu a[j] => j bat dau i+1 va ket thuc la n-1 ( vi khong xet so cuoi cung vi sau no khong con so nao khac de so sanh)

for (i = 0; i < n - 1; i++) {

for (j = i + 1; j < n; j++) {

if (a[i] + a[j] == k) {

printf("%d %d\n", a[i], a[j]); // Add a line break after each pair

}

}

}

return 0;

}

--------------------Bai 7 : Do chenh lech nho nhat giua 2 phan tu trong mang --------------------

8

69 96 93 27 84 32 78 56

OUTPUT:

3

#include <stdio.h>

#include <math.h>

int main(){

int n,i;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

int j;

int min = 1e9;

for(i=0;i<n-1;i++){

for(j=i+1;j<n;j++){

if(abs(a[i]-a[j])<min){

min = abs(a[i]-a[j]);

}

}

}

printf("\nOUTPUT:\n");

printf("%d",min);

return 0;

}

------------Bai 8 : Liet ke gia tri khac nhau trong mang theo thu tu xuat hien ( moi gia tri chi lke 1 lan ) -------------

Input

9

2 1 3 1 1 2 5 4 5

Output

2 1 3 5 4

#include <stdio.h>

int main(){

int n,i;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

printf("\nOUTPUT:\n");

for(i=0;i<n;i++){

int j;

int check =1;

for(j=0;j<i;j++){

if(a[i]==a[j]){

check=0; break;

}

}

if(check) printf("%d ",a[i]);

}

return 0;

}

Theo thu tu tang dan

7

8 5 8 5 9 6 9

5 6 8 9

#include <stdio.h>

int main() {

int n,i,j;

scanf("%d", &n);

if (n <= 0) {

printf("Invalid input. Number of elements must be positive.\n");

return 1;

}

int a[n];

for ( i = 0; i < n; i++) {

scanf("%d",&a[i]);

}

for ( i = 0; i < n - 1; i++) {

for ( j = i + 1; j < n; j++) {

if (a[i] > a[j]) {

int temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

}

for ( i = 0; i < n; i++) {

int isUnique = 1;

for ( j = 0; j < i; j++) {

if (a[i] == a[j]) {

isUnique = 0;

break;

}

}

if (isUnique) {

printf("%d ", a[i]);

}

}

printf("\n");

return 0;

}

--------------Bai 9 : Gia tri xuat hien cua cac phan tu trong mang kem theo tan suat ------

8

57 58 29 28

Sample Output

57 1

58 1

29 1

28 1

#include<stdio.h>

int main(){

int n,i;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

printf("\nOUTPUT:\n");

for(i=0;i<n;i++){

int check=1;

int j;

for(j=0;j<i;j++){

if(a[i]==a[j]){

check =0; break;

}

}

if(check){

int cnt=1;

for(j=i+1;j<n;j++){

if(a[i]==a[j])

++cnt;

}

printf("%d %d\n", a[i], cnt);

}

}

return 0;

}

------------- Bai 10: Gia tri nho nhat va lon nhat trong mang

( nhieu gia tri : in ra gtri nho nhat cuoi cung va lon nhat dau tien)

Input

7

1 4 2 3 4 5 6

Output

0 6

// Cach 1:

#include<stdio.h>

int main(){

int n,i;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

int min=1e9; int max=-1e9, min\_pos, max\_pos;

// no mac dinh in ra vi tri nho nhat xuat hien lan dau

// de bai : in ra vi tri nho nhat cuoi cung thi a[i]<=min

// no se xet den vi tri cuoi cung va cap nhat

for (i = 0; i < n; i++) {

if (a[i] <= min) {

min = a[i];

min\_pos = i;

}

if (a[i] > max) {

max = a[i];

max\_pos = i;

}

}

printf("%d %d", min\_pos, max\_pos);

return 0;

}

// Cach 2:

#include<stdio.h>

int main(){

int n,i;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

int min=1e9; int max=-1e9;

for (i = 0; i < n; i++) {

if (a[i] <= min) {

min = a[i];

}

if (a[i] > max) {

max = a[i];

}

}

// In ra phan tu nho nhat cuoi cung

for(i=n-1;i>=0;i--){

if(a[i] == min){

printf("%d ",i); break;

}

}

// In ra phan tu lon nhat dau tien

for(i=0;i<n;i++){

if(a[i] == max){

printf("%d",i); break;

}

}

return 0;

}

-------------Bai 11: So lon thu nhat va so lon thu hai

Sample Input 1:

5

2 3 4 1 5

Sample Output 1:

5 4

#include<stdio.h>

int main(){

int n,i;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

int max1=-1e9,max2=-1e9;

for(i=0;i<n;i++){

if(a[i]>max1){

max2=max1;

max1=a[i];

}

else if(a[i]> max2){

max2=a[i];

}

}

printf("%d %d",max1,max2);

return 0;

}

// In ra so lon nhat va so nho thu hai ( khong trung )

5

2 1 3 4 4

Output :

4 3

#include<stdio.h>

int main(){

int n,i;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

int max1=-1e9,max2=-1e9;

for(i=0;i<n;i++){

if(a[i]>max1){

max2=max1;

max1=a[i];

}

else if(a[i]> max2 && a[i]<max1){

max2=a[i];

}

}

printf("%d %d",max1,max2);

return 0;

}

------------------Bai 12: Mang doi xung--------------------------

#include <stdio.h>

int check(int a[], int n) {

int left = 0, right = n - 1;

while (left <= right) {

if (a[left] != a[right]) {

return 0;

}

left++;

right--;

}

return 1;

}

int main() {

int n;

scanf("%d", &n);

int a[n];

int i;

for (i = 0; i < n; i++) {

scanf("%d", &a[i]);

}

if (check(a, n)) {

printf("YES");

} else {

printf("NO");

}

return 0;

}

//C2:

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

//Kiem tra tinh doi xung day (symmetric)

int n, check = 1;

scanf("%d", &n);

int\* array = (int\*)malloc(sizeof(int)\* n);

int i;

for( i = 0; i < n; i++)

{

scanf("%d", &array[i]);

}

for( i = 0; i < n/2; i++)

{

if(array[i] != array[n-i-1])

{

check = 0;

break;

}

}

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

if(check == 1) printf("YES");

else printf("NO");

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

\*/

------------------Bai 13 Xoa phan tu k khoi mang---------------

5

1 3 5 6 7

2

OUTPUT:

1

5

6

7

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int i,j,n;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++){

scanf("%d",&a[i]);

}

int p;

scanf("%d",&p);

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

for(i=p-1;i<n;i++){ // tinh tu phan tu thu 1

a[i]=a[i+1];

}

--n;

for(i=0;i<n;i++){

printf("%d\n",a[i]);

}

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

----------Tinh tu index=0

#include <stdio.h>

#include <stdlib.h>

int main() {

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n,i, k;

scanf("%d", &n);

if (n <= 0) {

return 1;

}

int a[n];

for ( i = 0; i < n; i++) {

scanf("%d", &a[i]);

}

scanf("%d", &k);

if (k < 0 || k >= n) {

return 1;

}

// Remove the element at index k

for ( i = k; i < n - 1; i++) {

a[i] = a[i + 1];

}

n--; // Decrease the size of the array

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

for ( i = 0; i < n; i++) {

printf("%d", a[i]);

if (i < n - 1) {

printf(" ");

}

}

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

return 0;

}

---------------Bai 14 : Tan xuat xuat hien cua so chia het cho 3---------------

nhap n 10

6 9 3 6 12 9 3 3 6 12

OUTPUT:

6 3

9 2

3 3

12 2

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n,a[100],b[100],c[100],i,j,count=0,check;

printf("nhap n ");

scanf("%d",&n);

for (i=0;i<n;i++){

scanf("%d",&a[i]);

}

for (i=0;i<n;i++){

if (a[i]%3==0){

if (count==0){

b[count]=a[i];

c[count]=1;

count++;

}

else{

check=1;

for (j=0;j<count;j++){

if (b[j]==a[i]){

c[j]++;

check=0;

}

}

if (check==1){

b[count]=a[i];

c[count]=1;

count++;

}

}

}

}

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

for (j=0;j<count;j++){

printf("%d %d\n",b[j],c[j]);

}

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

-------------Bai 15 : Nhap vao so nguyen duong n va n so nguyen. Tim so xuat hien nhieu nhat

10

5 3 2 3 -2 -5 -3 5 5 2

OUTPUT:

5

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

#include <ctype.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n;

int arr[1000], b[1000] = {0}, c[1000] = {0}; //Khoi tao 3 mang so nguyen

int i;

scanf("%d", &n); //Nhap so phan tu cua mang arr

for(i = 0; i < n;i++)

{

scanf("%d", &arr[i]); // Nhap n phan tu mang so nguyen arr

}

for(i = 0; i < n;i++)

{

if(arr[i] > 0) //Mang so nguyen b[] ghi lai so lan xuat hien cua

b[arr[i]]++; //cac phan tu lon hon 0 trong day arr

if(arr[i] < 0) //Mang so nguyen c[] ghi lai so lan xuat hien cua

c[-arr[i]]++; //cac phan tu nho hon 0 trong day arr

}

int max = 0;

for(i = 0; i <n ;i++)

{

if(arr[i] > 0)

{

if(b[arr[i]] > max)

max = b[arr[i]];

}

else

{

if(c[-arr[i]] > max)

max = c[-arr[i]];

}

}// Vong lap tra ra so lan xuat hien nhieu nhat cua mot phan tu trong arr

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

for(i = 0; i <1000 ;i++)

{

if(b[i] == max)

{

printf("%d ", i);

}

if(c[i] == max)

printf("%d ", -i);

} //In ra phan tu co lan xuat hien nhieu nhat trong day

}

------------------------------Bai 16 : Dem so lan phan tu xuat hien it nhat 2 lan----------------------------

5

1 4 1 4 5

Output :

2

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

//Nhap vao so nguyen duong n va n so nguyen. Tim so phan tu duoc lap trong mang

#include <math.h>

#include <ctype.h>

int main() {

int n;

int arr[1000], b[1000] = {0}, c[1000] = {0};// Khoi tao 3 mang so nguyen

int i;

scanf("%d", &n);//So phan tu cua mnag

for(i = 0; i < n;i++)

{

scanf("%d", &arr[i]);//Nhap cac phan tu cua mang

}

for(i = 0; i < n;i++)

{

if(arr[i] > 0)

b[arr[i]]++;//Tra ve so cac phan tu lon hon 0 trong arr

if(arr[i] < 0)

c[-arr[i]]++;//Tra ve so phan tu nho hon 0 trong arr

}

int sum = 0;

int m=0,k=0;

//Vong lap tra ve so cac phan tu duoc lap trong mang

for(i = 0; i < 1000;i++)

{

if(b[i] > 1){

sum++;

// printf("%d ",i);

}

if(c[i] > 1){

sum++;

// printf("%d ",-i);

}

}

printf("\n%d",sum);

}

------------------------------Bai 17 : Tong hieu cua 2 ma tran ----------------------------

2 2

1 2

3 4

2 1

4 3

OUTPUT:

3 3

7 7

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n,m,i,j;

scanf("%d%d",&n,&m);

int a[n][m],b[n][m];

for (i=0;i<n;i++){

for(j=0;j<m;j++) scanf("%d",&a[i][j]);

}

for (i=0;i<n;i++){

for(j=0;j<m;j++) scanf("%d",&b[i][j]);

}

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

int c[n][m];

for (i=0;i<n;i++){

for(j=0;j<n;j++){

c[i][j]=a[i][j] + b[i][j];

}

}

for (i=0;i<n;i++){

for(j=0;j<m;j++){

printf("%d ",c[i][j]);

}

printf("\n");

}

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

------------------------------Bai 18 : Tong/ Tich cua duong cheo chinh trong ma tran ----------------------------

3

1 2 3

4 5 6

7 8 9

OUTPUT:

15 // tong duong cheo chinh

45 // tich duong cheo chinh

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n,i,j,m;

scanf("%d",&n);

int a[n][n];

for (i=0;i<n;i++){

for(j=0;j<n;j++){

scanf("%d",&a[i][j]);

}

}

int nt(int n){

for(i=2;i<=sqrt(n);i++){

if(n%i==0)

return 0;

}

return n>1;

}

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

int sum = 0; //tongduong\_cheo\_chinh

int tich = 1; //tichduong\_cheo\_chinh

for (i = 0; i < n; i++) {

sum += a[i][i]; // duong cheo chinh

}

printf("%d\n",sum);

for (i = 0; i < n; i++) {

tich \*= a[i][i]; // duong cheo chinh

}

printf("%d", tich);

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

------------------------------Bai 19 : So nguyen to tren duong cheo chinh va phu ----------------------------

3

1 2 3

4 5 6

7 8 9

Output :

3 ( snt 2, 5 , 7)

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n,i,j;

scanf("%d",&n);

int a[n][n];

for (i=0;i<n;i++){

for(j=0;j<n;j++){

scanf("%d",&a[i][j]);

}

}

int nt(int n){

int i;

for(i=2;i<=sqrt(n);i++){

if(n%i==0)

return 0;

}

return n>1;

}

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

int cnt = 0;

for (i = 0; i < n; i++) {

if (nt(a[i][i])) ++cnt; // duong cheo chinh

if (nt(a[i][n - i - 1])) ++cnt; // duong cheo phu

}

if(nt(a[n/2][n/2])) --cnt; // la phan tu dung giua duong cheo chinh va phu

printf("%d",cnt);

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

------------------------Bai 20 : Ma tran chuyen vi--------------------

3

1 2 3

4 5 6

7 8 9

OUTPUT:

1 4 7

2 5 8

3 6 9

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n,i,j;

scanf("%d",&n);

int a[n][n];

for (i=0;i<n;i++){

for(j=0;j<n;j++){

scanf("%d",&a[i][j]);

}

}

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

for (i=0;i<n;i++){ // i la chi so cot

for(j=0;j<n;j++){ // j la chi so hang

printf("%d ",a[j][i]);

}

printf("\n");

}

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

------------------------Bai 21 : Ma tran chuyen vi in theo yeu cau --------------------

3

1 2 3

4 5 6

7 8 9

OUTPUT:

9 8 7

6 5 4

3 2 1

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n,i,j;

scanf("%d",&n);

int a[n][n];

for (i=0;i<n;i++){

for(j=0;j<n;j++){

scanf("%d",&a[i][j]);

}

}

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

for (i=n-1;i>=0;i--){ // i la chi so hang

for(j=n-1;j>=0;j--){ // j la chi so cot

printf("%d ",a[i][j]);

}

printf("\n");

}

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

------------------------Bai 22 : Ma tran chuyen vi in theo yeu cau --------------------

3

1 2 3

4 5 6

7 8 9

OUTPUT:

9 6 3

8 5 2

7 4 1

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n,i,j;

scanf("%d",&n);

int a[n][n];

for (i=0;i<n;i++){

for(j=0;j<n;j++){

scanf("%d",&a[i][j]);

}

}

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

for (i=n-1;i>=0;i--){ // i la chi so hang

for(j=n-1;j>=0;j--){ // j la chi so cot

printf("%d ",a[j][i]);

}

printf("\n");

}

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

------------------------Bai 23 : Ma tran chuyen vi in theo yeu cau --------------------

3

1 2 3

4 5 6

7 8 9

OUTPUT:

3 6 9

2 5 8

1 4 7

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <math.h>

int main() {

system("cls");

//INPUT - @STUDENT:ADD YOUR CODE FOR INPUT HERE:

int n,i,j;

scanf("%d",&n);

int a[n][n];

for (i=0;i<n;i++){

for(j=0;j<n;j++){

scanf("%d",&a[i][j]);

}

}

// Fixed Do not edit anything here.

printf("\nOUTPUT:\n");

//@STUDENT: WRITE YOUR OUTPUT HERE:

for (i=n-1;i>=0;i--){ // i la chi so hang

for(j=0;j<n;j++){ // j la chi so cot

printf("%d ",a[j][i]);

}

printf("\n");

}

//--FIXED PART - DO NOT EDIT ANY THINGS HERE

printf("\n");

system ("pause");

return(0);

}

----------------------Bai 24 : So chan xuat hien nhieu nhat -----------------------

#include <stdio.h>

int main() {

int numbers[7];

int evenCount[101] = {0}; // Array to count the occurrences of even numbers (0 to 100)

int maxEvenCount = 0;

int i;

// Prompt the user to enter 7 integers

for ( i = 0; i < 7; i++) {

scanf("%d", &numbers[i]);

if (numbers[i] % 2 == 0) {

evenCount[numbers[i]]++;

if (evenCount[numbers[i]] > maxEvenCount) {

maxEvenCount = evenCount[numbers[i]];

}

}

}

if (maxEvenCount > 0) {

printf("The even numbers that appear the most frequently are: ");

for ( i = 0; i <= 100; i++) {

if (evenCount[i] == maxEvenCount && i % 2 == 0) {

printf("%d ", i);

}

}

printf("\n");

} else {

// No even number found

printf("Pew!!!\n");

}

return 0;

}

----------------------Bai 25 : So chan co hai chu so xuat hien nhieu nhat -----------------------

#include <stdio.h>

int main() {

int numbers[7];

int twoDigitCount[100] = {0};

int maxTwoDigitCount = 0;

int i;

for ( i = 0; i < 7; i++) {

scanf("%d", &numbers[i]);

if (numbers[i] >= 10 && numbers[i] <= 99) {

twoDigitCount[numbers[i]]++;

if (twoDigitCount[numbers[i]] > maxTwoDigitCount) {

maxTwoDigitCount = twoDigitCount[numbers[i]];

}

}

}

if (maxTwoDigitCount > 0) {

for ( i = 10; i <= 99; i++) {

if (twoDigitCount[i] == maxTwoDigitCount) {

printf("%d ", i);

}

}

printf("\n");

} else {

printf("No two-digit number.\n");

}

return 0;

}

-------------------- Bai 26: Loai phan tu trung lap va in ra thu tu xuat hien--------------

5

7

1

3

3

2

Output :

7

1

3

2

#include <stdio.h>

int main() {

int n,i,j;

scanf("%d", &n);

if (n <= 0) {

return 1; // Exit with an error code

}

int a[10];

int oddSeen[101] = {0}; // Array to keep track of seen odd numbers

int resultArray[10]; // To store the resultant list

int resultCount = 0;

for ( i = 0; i < n; i++) {

scanf("%d", &a[i]);

if ( oddSeen[a[i]] == 0) { // chan , le them dieu kien a[i] % 2 != 0 && oddSeen[a[i]] == 0

oddSeen[a[i]] = 1;

resultArray[resultCount] = a[i];

resultCount++;

}

}

Sap xep

// Sort the resultant list in ascending order (bubble sort)

// for (int i = 0; i < resultCount - 1; i++) {

// for (int j = 0; j < resultCount - i - 1; j++) {

// if (resultArray[j] > resultArray[j + 1]) {

// // Swap elements

// int temp = resultArray[j];

// resultArray[j] = resultArray[j + 1];

// resultArray[j + 1] = temp;

// }

// }

// }

// Print the resultant list of numbers

for ( i = 0; i < resultCount; i++) {

printf("%d\n", resultArray[i]);

}

return 0;

}